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INFORMATION	DISCLOSURE
STATEMENT B	Y APPLICANT

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Sheet

Application Number 09/423,100

Filing Date December 11, 2000 PECETY

First Named Inventor Gan, Zhong-Ru

Art Unit 1647

Examiner Name Security Christing J. Name Security Christing J.

(use as many sheets as necessary)

of

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Attorney Docket Number 020167-000120US

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	U.S. PATENT DOCUMENTS					
		Document Number				
Examiner	Cite No.1	Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
(CD)	AA	US-5,473,049	12/05/1995	Obermeier, et al.		
(2)	AB	US-5,358,857	10/25/1994	Stengelin, et al.		
ري	AC	US-5,559,128	09/24/1996	Chakravarty, et al.		
कुल्ल	AD	US-5,719,021	02/17/1998	Inouye -		
						
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			F	OREIGN PA	TENT DOCUM	ENTS		
Examiner	Cite	Foreign Patent Document Publication		Name of Patentee or	Pages, Columns, Lines, Where Relevant			
Initials*	No.1	Country Code ³	Number⁴	Kind Code ^t (if known)	Date MM-DD- YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	Т ⁶
600	AE	EP	0 055 945		07/14/1982	Goeddel, et al.		
	AF	FP.	-0-347-781-B1		12/27/1989	Dörsehug, et al.		
		 						
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known 09/423,100 **Application Number** December 11, 2000 Filing Date **First Named Inventor** Gan, Zhong-Ru JAN 1 6 2003 1647 Art Unit Secud, Christine J

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Examiner Name 020167-000120US Attorney Docket Number

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2
500	AG	U. Shinde and M. Inouye, "Intramolecular chaperones and protein folding," TIBS, (1993), Vol. 18, pp. 442-446.	
600	АН	M. Inouye, "Intramolecular Chaperone: The Role of the Pro-Peptide in Protein Folding," <i>Enzyme</i> , (1991), Vol. 45, pp. 314-321.	
دوي	Al	M. Ikehara, et al., "Synthesis of a gene for human growth hormone and its expression in Escherichia coli," Proc. Natl. Acad. Sci. USA, (Oct. 1984), Vol. 81, pp. 5956-5960.	
(2)	AJ	Watson et al., Recombinant DNA—A Short Course, Scientific American Books, W.H. Freeman Co., NY, (1983), pp. 231-241.	
(3)	AK	Norman and Litwack, "Pancreatic Hormones: Insulin and Glucagon," in <i>Hormones</i> , Academic Press, Inc., NY. (1987), pp 264-317.	
400	AL	I. Johnson, "Human Insulin from Recombinant DNA Technology," Science, (Feb. 11, 1983), Vol. 219, pp. 632-637.	
دري	AM	D. Williams, et al., "Cytoplasmic Inclusion Bodies in <i>Escherichia coli</i> Producing Biosynthetic Human Insulin Proteins," <i>Science</i> , (Feb. 5, 1982), Vol. 215, pp. 687-689	
(3)	AN	R. Burgess, "Protein Purification," in <i>Protein Engineering</i> , Oxender, D.L., Fox, C.F., Eds.; Alan R. Liss, Inc; NY, (1987), pp. 71-82.	
S	AO	R.E. Chance, et al., "The Production of Human Insulin Using Recombinant DNA Technology and a New Chain Combination Procedure," in <i>Peptides: Synthesis-Structure-Function</i> , Pierce Chem. Co., Rockford, II, (1981), pp. 721-728.	
ريمي	AP	B.H. Frank and R.E. Chance, "The Preparation and characterization of human insulin of recombinant DNA origin," in Therapeutic Agents Produced by Genetic Engineering "Quo Vadis?" Symposium, (May 29-30, 1985), Sanoff Group, Toulouse-Labège, France, pp. 137-148.	
رون	AQ	R.E. Chance, et al., "Chemical, Physical, and Biological Properties of Recombinant Human Insulin," in J. L. Gueriguian <i>Insulins, Growth Hormone, and Recombinant DNA Technology</i> , Raven Press, NY, (1981), pp. 71-85	
(N)	AR	R. D. Johnson, "The Processing of Biomacromolecules: A Challenge for the Eighties," Fluid Phase Equilib., (1986), 29:109-123	
(/6)	AS	D. V. Goeddel, et al., "Expression in <i>Escherichia coli</i> of chemically synthesized genes for human insulin," <i>Proc. Natl. Acad. Sci. USA</i> , (Jan. 1979), No. 1, pp. 106-110.	

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Complete if Known Application Number 09/423,100 Filing Date December 11, 2000 Gan, Zhong-Ru JAN First Named Inventor 1647 Art Unit Saoud, Christine J.

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		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	,
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т
B	АТ	J. P. Burnett, "Commercial Production of Recombinant DNA-Derived Products," in <i>Experimental Manipulation of Gene Expression</i> , Academic Press, NY, (1983), pp. 259-277.	
Cys	AU	J. Etienne-Decent, "Regulation of Protein Synthesis," in <i>Genetic Biochemistry: From Gene to Protein</i> , Ellis Horwood Limited, Chichester, U.K., (1988), pp. 125-127.	
B	AV	S. M. Wheelwright, <i>Protein Purification: Design and Scale up of Downstream Processing</i> , Oxford University Press, NY, (1991), p.217.	
CA	AW	B.H. Frank and R.E. Chance, "Two Routes for Producing Human Insulin Utilizing Recombinant DNA Technology," Munch. Med. Wschr., (1983), Vol. 125, Suppl. 1, pp. S14-S20.	_
65	AX	E. P. Kroeff, et al. "Production Scale Purification of Biosynthetic Human Insulin by Reversed-Phase High- Performance Liquid Chromatography," <i>Journal of Chromatography</i> , (1989), Vol. 461, pp. 45-61.	_
65	AY	H. V. Tottrup and S. Carlsen, "A Process for the Production of Human Proinsulin in Saccharomyces cerevisiae," Biotechnol. Bioeng., (1990), Vol. 35, pp. 339-348.	_
45	AZ	L. R. Castellanos-Serra, et al., "Expression and folding of an interleukin-2-proinsulin fusion protein and its conversion into insulin by a single step enzymatic removal of the C-peptide and the N-terminal fused sequence," FEBS Letters, (1996), Vol. 378, pp. 171-176.	
B	ВА	L. Villa-Komaroff, et al., "A bacterial clone synthesizing proinsulin," <i>Proc. Natl. Acad. Sci. USA</i> , (Aug. 1978), Vol. 75, No. 8, pp. 3727-3731.	_
45	ВВ	L. Thim, et al., "Secretion and processing of insulin precursors in yeast," <i>Proc. Natl. Acad. Sci. USA</i> , (Sept. 1986), Vol. 83, pp. 6766-6770.	
(M)	ВС	I. V. Diers et al., "Yeast Fermentation Processes for Insulin Production," in Y. H. Chiu <i>Drug Biotechnology Regulations: Scientific Basis and Practices</i> , Marcel Dekker, Inc., NY, (1991), pp. 166-176.	_
(2)	BD	M. R. Ladisch and K. L. Kohlmann, "Recombinant Human Insulin," <i>Biotechnol. Prog.</i> , (1992), Vol. 8, pp. 469-478.	_

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FORM PTO-1449 (Wodified) Attorney Docket No.: 20167-000120US Application No.: 09/423,100 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE Applicant: Dr. Zhong-Ru Gan Group: 1798 1647 Filing Date: October 29, 1999 STATEMENT (Use several sheets if necessary) Page 1 U.S. PATENT DOCUMENTS Reference Designation Class Sub-class Filing Date Examiner Initial Document No. Date Name (If Appropriate) GWAA 6,001,604 12/14/99 Hartman et al. \sim AB 04/10/90 Markussen et al. 4,916,212 Goeddel et al. AC CAP 4,342,832 08/03/82 de Boer et al. 5,254,463 10/19/93 \triangle AD FOREIGN PATENT DOCUMENTS Translation Class Sub-class Document No. Date Country (Yes/No) WO 96/20724 07/11/96 **PCT PCT** WO 97/18233 05/22/97 OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) DATE CONSIDERED 2003 **EXAMINER**

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